



# **EXPLANATION OF UNITS**

Quadrangle Location

# **INTRUSIVE ROCKS**

Silicified zones related to the Nonesuch River fault.

Devonian or Carboniferous

**Saco pluton.** Coarse-grained, medium dark gray to slightly greenish-gray metadiorite/gabbro; plagioclase is saussuritized, hornblende and augite altered to fibrous amphibole. Some sections of the pluton are non-foliated; others are extremely foliated and sheared.

# STRATIFIED ROCKS

Late Ordovician to Early Silurian

Berwick Formation. Medium-bedded medium gray plagioclase biotite granofels, locally with SOb abundant calcite; interbeds of two-mica garnet schist.

Light-buff gray fine-grained plagioclase-quartz granofels with essentially no mica; represents either feldspathic metasandstone or metafelsite. MERRIMACK GROUP

Kittery Formation. Very similar to Eliot Formation but thicker bedded. Buff-weathering beds commonly have relict fine-granule detrital quartz grains. **Eliot Formation.** Fine-grained medium gray muscovite-chlorite-quartz-plagioclase phyllite with ankerite and calcite; buff-colored and finely limonite-speckled on weathered surface; interbedded

with dark gray crenulated muscovite-chlorite phyllite.

Middle to Late Ordovician

CASCO BAY GROUP

Scarboro Formation. Rusty and non-rusty weathering crenulated muscovite-chlorite-garnet phyllite with rare interbeds of quartz-plagioclase muscovite-chlorite granofels.

Spring Point Formation. Medium greenish gray chlorite-white mica-garnet phyllite; probably Osp representing intermediate metavolcanic ash beds.

# **EXPLANATION OF SYMBOLS**

Strike and dip of bedding. (inclined, vertical)

Strike and dip of bedding, tops known. (upright)

CONTOUR INTERVAL 20 FEET

Strike and dip of cleavage, schistosity, or foliation. (inclined, vertical)

Photo location

# **EXPLANATION OF MAP LINES**

Stratigraphic or intrusive contact between rock units.  $High angle mostly \ dip-slip \ fault \ (U-upthrown \ block; D-downthrown \ block).$ High-angle mostly strike-slip fault (arrows indicate sense of motion). High angle oblique-slip fault (arrows indicate sense of motion; U - upthrown block; D-downthrown block).

## **GEOLOGIC TIME SCALE** Geologic Age Absolute Age\* 0-65 Cenozoic Era 65-145 Cretaceous Period Jurassic Period 145-200 Triassic Period 200-253 253-300 Paleozoic Era Permian Period Carboniferous Period 300-360 Devonian Period 360-418 418-443 Silurian Period Ordovician Period 443-489 489-544 Cambrian Period Precambrian time Older than 544 \* In millions of years before present. (Okulitch, A. V., 2002, Échelle des temps géologiques, 2002: Commission géologique du Canada, Dossier Public 3040 (Série nationale des sciences de la Terre, Atlas geologique) - RÉVISION.)